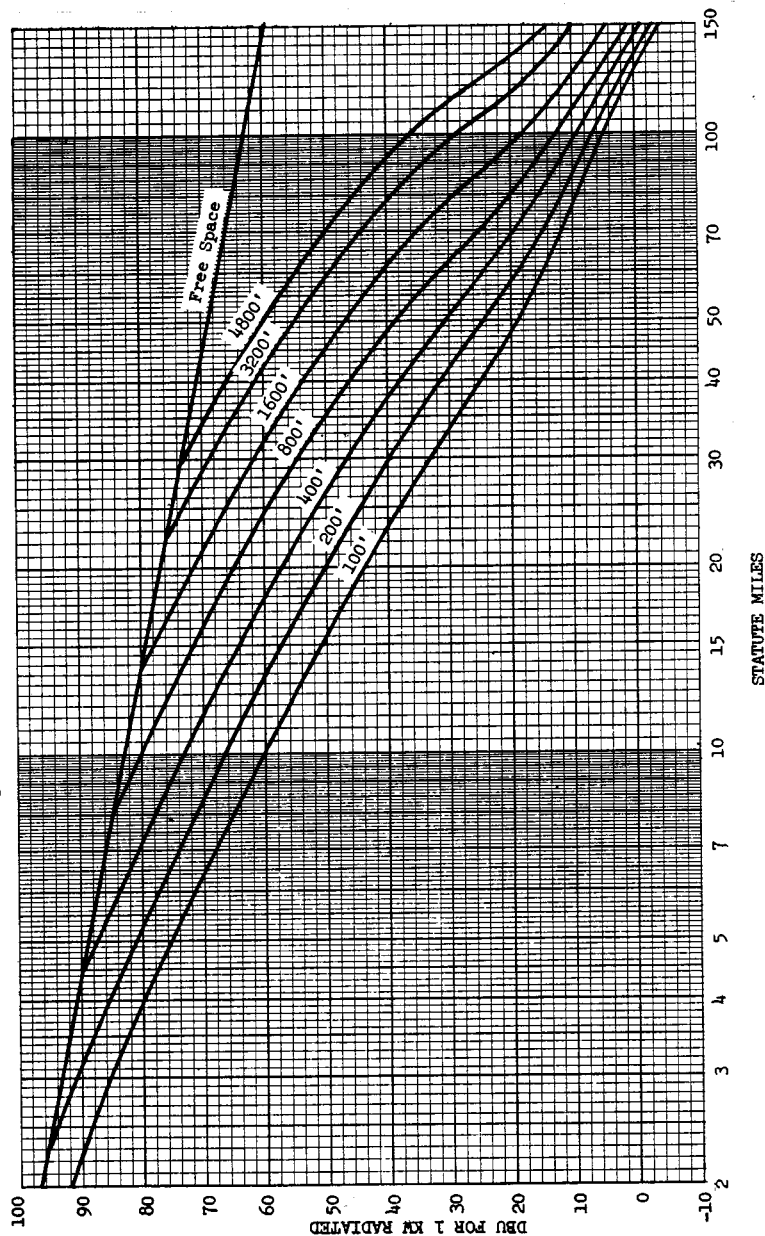


PROPAGATION CURVES FOR THE VHF MARITIME MOBILE RADIO SERVICE
 Seawater, Fresh Water Or Land (Smooth Earth)
 Field Strengths, In dB From 1 Microvolt Per Meter (dBu), For An Effective
 Radiated Power Of 1 KW.
 Vessel Antenna Height = 30 Feet.
 Coast Antenna Heights: 4800, 3200, 1600, 800, 400, 200 and 100 Feet.



§ 80.769 Shadow loss.

Where the transmission path is obstructed the received signal must be adjusted to include shadow loss. At-

tenuation due to shadowing must be taken from § 80.769 Graph 1, as follows:

- Inspect the map(s) to determine if a hill(s) obstructs an imaginary line of

§ 80.769

47 CFR Ch. I (10–1–00 Edition)

sight (dashed line on illustrative profiles of § 80.769 Graph 1 from the average terrain elevation at the coast station antenna to the water level at the ship location. If average terrain elevation exceeds the actual ground elevation at the antenna site, the latter elevation must be used as the average terrain elevation.

(b) If a hill appears to obstruct the radio path, plot the antenna site elevation, the obstruction elevation and the height of the ship station on rectangular coordinate paper using elevation above mean sea level as the vertical scale and distance in statute miles as the horizontal scale. Then draw a straight line between the antenna and the ship.

(c) If a hill obstructs the imaginary line of sight, determine its height (H) above the imaginary line and its distance (D) from either the coast or ship station, whichever is nearer, as illustrated by examples "A" and "B" on Graph 1.

(d) Read the shadow loss from this Graph 1 and subtract that loss from the computed received signal.

(e) Where more than one hill obstructs the transmission path, determine the height and position of a single equivalent hill, as illustrated by example "C" on this graph. Read the shadow loss from this graph for the equivalent hill.

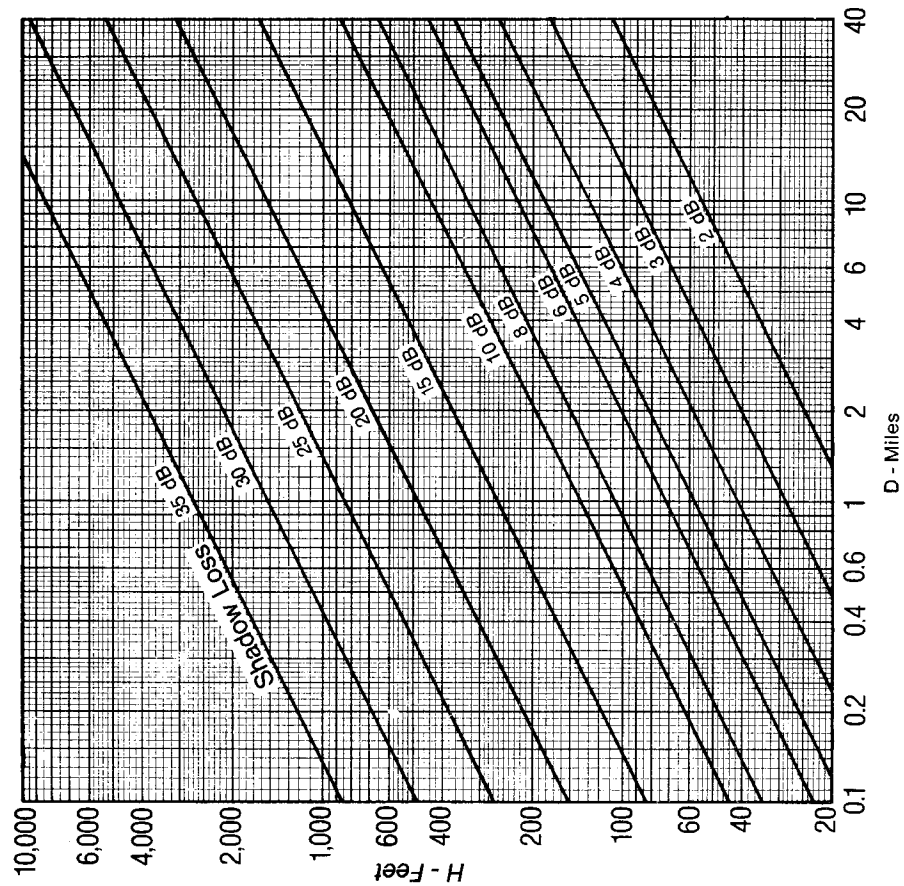
Shadow Loss Chart
for
VHF Maritime Service
D and H are determined
from path profiles

Example A

Example B

Example C

* Average terrain elevation



§ 80.771 Method of computing coverage.

Compute the +17 dBu contour as follows:

(a) Determine the effective antenna height above mean sea level according to the procedures in §§ 80.757–80.761.

(b) Determine the effective radiated power according to § 80.765. Determine